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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/780,206	02/09/2001	Michael Fritz	RDID0028US	5556
20306 7	7590 02/22/2005		EXAMINER	
MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP			CHUNDURU, SURYAPRABHA	
300 S. WACK			ARTIQUE	DADED MUMEE
32ND FLOOR			ART UNIT	PAPER NUMBER
CHICAGO, IL 60606			1637	
			DATE MAILED: 02/22/200	<

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/780,206	FRITZ ET AL.				
Office Action Summary	Examiner	Art Unit				
	Suryaprabha Chunduru	1637				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 29 De	ecember 2004.					
	action is non-final.					
•	, 					
Disposition of Claims						
4) ☐ Claim(s) 36-41 and 68-76 is/are pending in the 4a) Of the above claim(s) is/are withdrav 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 36-41 and 68-76 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the	***	• •				
Replacement drawing sheet(s) including the correcting 11) The oath or declaration is objected to by the Ex		, ,				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of 	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment/e\						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da					

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DETAILED ACTION

- 1. Applicants' response to the office action filed on December 29, 2004 has been entered.
- 2. The IDS filed on June 7, 2004 and the Supplemental IDS filed on April 28, 2004 have been entered.
- 3. Claims 1-35, 42-67 are cancelled. Claims 36-41, 68-76 are pending.

New Grounds of Rejections

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 36-41, 68-76 are rejected under 35 U.S.C. 102(e) as being anticipated by Fields (US 2003/0027203).

Fields teaches an apparatus of 36, 70, and 72, for detecting nucleic acids in a sample (see page 2, paragraph 0022) comprising

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(a) a binding space for purifying nucleic acids by immobilizing the nucleic acids and separation of impurities (see page 2, paragraph 0027, page 4, paragraphs 0060-0061, Fig. 5);

- (b) an amplification space for amplifying the nucleic acids (see fig. 6, paragraph 0063) wherein a part of amplification space is identical to a part of an amplification space (see Fig. 6, wherein the vial 420 is connected to amplification space by capillary tubes);
- (c) a detection space for detecting the nucleic acids (see paragraphs 0063, indicates the amplified products are moved into device 425, for detection of amplified nucleic acid products).

With regard to claims 37, 73, Fields teaches that the apparatus comprises reagents for purifying, amplifying and detecting the nucleic acid (see page 3, paragraphs 0031-0034);

With regard to claims 38, 69, Fields teaches that the detection space comprises at least part of the amplification space and the binding space, which facilitates transport of the sample and reagents through the binding space, amplification space and the detection space (see Fig. 1-3 and Fig. 6, wherein the detection space comprises a part of amplification space and a part of the binding space connected by a 3-way and four-way connecting capillary tubes facilitating transport of sample and reagents, page 3, paragraph 0049-0054);

With regard to claim 40, 75, Fields teaches that the capillary space is a capillary reaction vessel surrounded by a heatable metal layer (see page 4, paragraph 0061, page 6, claim 3, which indicates a heater);

With regard to claim 41, 76, Fields teaches that the capillary space is a polystyrene (plastic) (see page paragraph 0067);

With regard to claim 68, Fields teach an apparatus for amplifying nucleic acids comprises capillary reaction vessel surrounded by a single heatable metal layer, wherein the layer is coated

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on the capillary vessel (see page 5, paragraph 0063, which indicates the PCR amplification reaction vessel is thermal cycling unit);

With regard to claims 71, 47, Fields teaches that the binding space is defined by an inner surface of a reaction vessel, wherein the inner surface (adsorption filter element), which is a capillary space, that binds nucleic acids (see page 4, paragraph 0061). Thus the disclosure of Fields meets the limitations in the instant claims.

Response to arguments

- 5. With regard to the objection to priority document maintained in the previous office action Applicants arguments, IDS submitted on June 7, 2004 and the English translation of German Patent Application No. DT 23 43 987are considered and the objection is withdrawn herein.

 6. With regard to the rejection made in the previous office action under 35 USC 112, second paragraph, Applicants arguments and amendment are fully considered and the rejection is withdrawn in view of the amendment.
- 7. With regard to the rejection made in the previous office action under 35 USC 102(b),
 Applicants arguments and amendment are fully considered and the rejection is withdrawn in view of the persuasive arguments.

Conclusion

No claims are allowable.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Suryaprabha Chunduru whose telephone number is 571-272-0783. The examiner can normally be reached on 8.30A.M. - 4.30P.M, Mon - Friday,.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached on 571-272-0782. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Suryaprabha Chunduru Examiner Art Unit 1637

JEFFREY FREDMAN PRIMARY EXAMINER